

Title (en)

MULTIPART OIL WIPING RING FOR PISTONS OF INTERNAL COMBUSTION ENGINES

Title (de)

MEHRTEILIGER ÖLABSTREIFRING FÜR KOLBEN VON VERBRENNUNGSMOTOREN

Title (fr)

SEGMENT RACLEUR D'HUILE EN PLUSIEURS PARTIES POUR PISTONS DE MOTEURS A COMBUSTION INTERNE

Publication

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Application

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Abstract (en)

[origin: WO2005024277A1] The invention relates to a multipart oil wiping ring for pistons of internal combustion engines, comprising two steel strip-type lamellae with parallel sides, the running surfaces of which are provided with a convexly asymmetric shape having a vertex line that extends across the circumference of the lamellae, and a bracing spring located between the lamellae, said bracing spring pressing the lamellae in an axial direction against one respective side of an annular groove in the piston and in a radial direction against the cylinder wall. The aim of the invention is to obtain an oil-wiping effect that is improved compared to prior art while reducing wear of the running surface. Said aim is achieved by configuring the running surfaces (h, h') of both lamellae so as to make the same correspond to a final contour approaching a condition of wear in the run-in state of the engine, the vertex lines (3, 3') of the running surfaces (h, h') being oriented counter to the direction of the center of the annular groove (3) in the mounted states of the oil ring (10) in the piston.

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